



ZB5R transmitter complete, green cap

ZB5RTA3

Main

Range of product	Harmony XB5
Product or component type	Wireless and batteryless transmitter
Device short name	XB5R
Bezel material	Dark grey plastic
Fixing collar material	Plastic
Mounting diameter	22 mm
transmission frequency	2405 MHz
emission class	5M00G7W
Antenna type	Omnidirectional

Complementary

Shape of signaling unit head	Round	
Type of operator	spring return push-button with transmitter	
Operator profile	Green flush	
Max power consumption in W	1 mW	
Number of channels	16	
modulation technique	O-QPSK	
Bandwidth	5 MHz	
Antenna gain	0 dBi	
Embedding depth	42 mm	
CAD overall height	41.5 mm	
CAD overall width	30 mm	
CAD overall depth	43 mm	
Product weight	0.045 kg	
Operating travel	4.3 mm (total travel)	
Operating force	10 N C/O changing electrical state	
Mechanical robustness	Free fall resistance 1000 mm conforming to EN/IEC 60068-2-32	
Standards	CSA C22.2 No 14 EN/IEC 60947-1 EN/IEC 60947-5-1	

EN/IEC 60947-5-1 UL 508

06-Sept-2024

Radio agreement	ANATEL	
	ARIB T66 FCC	
	ICASA	
	RSS	
Communication port protocol	Zigbee green power at 2.4 GHz conforming to IEEE 802.15.4	
Maximum sensing distance	100 m in free field	
	25 m transmitter in a plastic box type XAL D and receiver in a metal enclosure	
	300 m transmitter in box type XAL D, receiver in metal enclosure and use relayantenna	
Acquisition time	2 ms	
Response time	< 2 ms	
Emission power	3 mW	
Fixing mode	Fixing nut beneath head: 22.4 N.m	
Station name	XALD 15 cut-outs XALK 25 cut-outs	
Electrical composition code	PW1	
Environment		
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for operation	-4070 °C	
Relative humidity	95 % at -4070 °C without condensation	
IP degree of protection	IP66 (front face) conforming to IEC 60529	
	IP67 (front face) conforming to IEC 60529	
	IP69 (front face) conforming to IEC 60529 IP69K (front face) conforming to IEC 60529	
IK degree of protection	IK03 conforming to IEC 50102	
Mechanical durability	1000000 cycles	
Shock resistance	25 gn (duration = 6 ms) for 6000 shocks conforming to IEC 60068-2-27	
	30 gn (duration = 18 ms) for half sine wave acceleration conforming to IEC	
	60068-2-27	
	50 gn (duration = 11 ms) for half sine wave acceleration conforming to IEC 60068-2-27	
Vibration resistance	5 gn (f= 11500 Hz) conforming to IEC 60068-2-6	
	+/- 10 mm (f= 211 Hz) conforming to IEC 60068-2-6	
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 8 kV (in free air (in insulating parts))	
	conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 4 kV (on contact (on metal parts))	
	conforming to IEC 61000-4-2	
	Susceptibility to electromagnetic fields - test level: 20 V/m (803000 MHz)	
	conforming to IEC 61000-4-3 Susceptibility to electromagnetic fields - test level: 6 V/m (30006000 MHz, distance	
	= 20 m) conforming to IEC 61000-4-3	
product certifications	BT 2006/95/EC	
	UL	
	GOST	
	C-Tick CSA	
Directives	1999/5/EC - R&TTE directive	
	2004/108/EC - electromagnetic compatibility	
Packing Units		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	5.300 cm	

Package 1 Width	3.400 cm
Package 1 Length	8.700 cm
Package 1 Weight	50.900 g
Unit Type of Package 2	S01
Number of Units in Package 2	25
Package 2 Height	15.000 cm
Package 2 Width	15.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	1.483 kg

Contractual warranty

Warranty 18 months



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Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

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Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

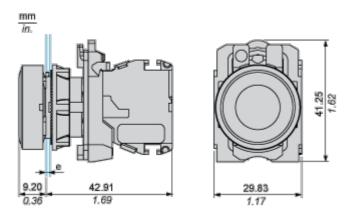
Certifications & Standards

Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
China Rohs Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
Circularity Profile	End of Life Information	

Dimensions Drawings

Wireless and Batteryless Pushbutton - Transmitter

With Plastic Pushbutton without Cap

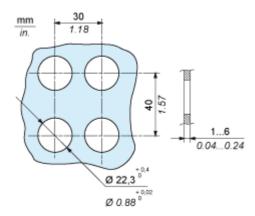


e: panel thickness 1 to 6 mm / 0.039 to 0.24 in.

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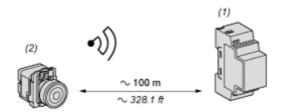
Mounting and Clearance

Transmitter Mounting



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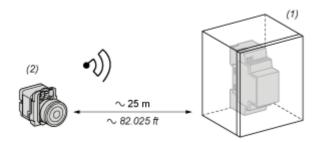
Transmitter Clearance in Free Field Unobstructed



- (1): Receiver
- (2): Transmitter

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Transmitter Clearance in a Metal Enclosure



(1): Metal enclosure

(2): Transmitter

The range is reduced if the transmitter is placed in a metal enclosure (reduction factor:approx 10%)

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Glass window	1020 %
Plaster wall	3045 %
Brick wall	60 %
Concrete wall	7080 %
Metal structure	50100 %